UHF RFID ANTENNA · 865–868 MHZ · OUTDOOR PANEL, IP67

IDTS ULA-12

A 12 dBi circular UHF antenna with a narrow 40° × 38° beam for long, focused lane reads.

12 dBi gain | Circular (RHCP) | N female, 50 Ω | IP67 | 865–868 MHz

Long reach, aimed at one lane.

The **Identium IDTS ULA-12** is a high-gain external antenna for fixed UHF RFID readers at 865–868 MHz. Its 12 dBi gain packs the reader's output into a 40° × 38° beam that reaches up to 30 m with an Identium UHF 4-port reader.

That focus suits single vehicle lanes, parking entries and yard gates, where tags are far away and must be read at one exact spot. The 445 × 445 mm IP67 panel is rated –40 °C to +65 °C, has DC-ground lightning protection and comes with a mounting bracket.



12 dBi
Gain, circular (RHCP)

30 m
With a UHF 4-port reader

40°×38°
Beam width, H × V

IP67
ABS body, metal reflector

≤ 1.5
VSWR at 50 Ω

WHAT IT DOES

Read, connect and mount

READ
12 dBi, circular

- 12 dBi gain, right-hand circular
- Narrow 40° × 38° beam
- Up to 30 m, Identium 4-port reader
- Reads tags at varying angles

CONNECT
N female, 50 Ω

- N female connector, 50 Ω
- VSWR ≤ 1.5
- Up to 50 W input power
- DC-ground lightning protection

MOUNT
Outdoor-ready panel

- IP67 ABS body, aluminium reflector
- –40 °C to +65 °C
- 445 × 445 mm panel
- Mounting bracket included

WHERE IT WORKS

Where it reads

Vehicle gates
Factories and campuses

Parking lots
Entry and exit lanes

Toll lanes
Automated toll

Yards
Containers, trailers

Logistics
Parcel and goods flow

Construction sites
Workers and materials

HOW IT WORKS

From the reader port to the tag in the lane

Fixed reader
An Identium UHF 4-port reader with external antenna ports

Coax cable
50 Ω low-loss coax with an N-type plug at the antenna end

IDTS ULA-12
12 DBI CIRCULAR UHF ANTENNA
- Radiates at 865–868 MHz, RHCP
- Focuses a 40° × 38° beam, 12 dBi
- Reaches up to 30 m down the lane
- Takes up to 50 W input
- Sealed to IP67 on a pole or gantry

Tags
Windshield tags and tags on crates or containers, up to 30 m

Quoted as one read point
The 30 m rating is with an Identium UHF 4-port reader; antennas, readers and windshield tags can be quoted together.

WHY THE IDTS ULA-12

Built for lanes, gates and yards

Long, focused reach
12 dBi gain squeezes the reader's output into a 40° × 38° beam that reaches up to 30 m with an Identium UHF 4-port reader.

Aimed at one lane
The narrow beam reaches further down a lane and concentrates on the lane in front, for single-lane access and toll-style reads.

Circular polarization
Right-hand circular polarization reads tags fixed at different angles on windshields, crates or containers.

Sealed to IP67
An industrial-grade ABS body over an aluminium reflector, sealed to IP67 for pole and gantry mounting outdoors.

–40 °C to +65 °C
Rated from –40 °C to +65 °C for exposed gates, parking entries and logistics yards through the year.

Lightning protection
DC-ground lightning protection and a 50 W maximum input rating suit pole and gantry installations.

Standard N connector
A 50 Ω N female port: plan 50 Ω low-loss coax with an N-type plug at the antenna end.

India band, export ranges
Specified for 865–868 MHz, India's licence-exempt UHF RFID band; other frequency ranges on request for export projects.

RF DATA

Antenna performance

PARAMETER	IDTS ULA-12	IN PRACTICE
Frequency	865–868 MHz; other ranges on request	India's UHF RFID band
Gain	12 dBi	Long, focused reach
Polarization	Circular (RHCP)	Tags read at varying angles
Beam width	40° H / 38° V	Aims at one lane or entry
Impedance / VSWR	50 Ω / ≤ 1.5	Matches 50 Ω readers and cable
Max. input power	50 W	Headroom for fixed-reader power

Read range up to 30 m with an Identium UHF 4-port reader; actual range depends on the tag, reader power, mounting height and surroundings.

AT A GLANCE

- Up to 30 m with an Identium UHF 4-port reader
- Narrow 40° × 38° beam for single lanes
- IP67, –40 °C to +65 °C, bracket included

IN THE BOX

- IDTS ULA-12 12 dBi circular UHF antenna
- Mounting bracket
- Readers and windshield tags can be quoted with the antenna for a full lane set-up

ORDERING

IDTS ULA-12 — UHF 12 dBi circular (RHCP) antenna, 865–868 MHz, N female, IP67, bracket included. Other frequency ranges on request for export.

SPECIFICATIONS

Technical data

RF	
Frequency	865–868 MHz (other ranges on request)
Gain	12 dBi
Polarization	Circular (RHCP)
Beam width	40° horizontal / 38° vertical
Impedance	50 Ω
VSWR	≤ 1.5
Max. input power	50 W
Lightning protection	DC ground

PERFORMANCE	
Read range	Up to 30 m with an Identium UHF 4-port reader; depends on the tag, reader power, mounting and surroundings

MECHANICAL	
Connector	N female
Material	ABS body, aluminium reflector
Dimensions	445 × 445 mm
Mounting	Bracket included

ENVIRONMENT	
IP rating	IP67
Operating temp.	–40 °C to +65 °C

WHICH GAIN?

12 dBi or 9 dBi

	IDTS ULA-12	IDTS-RUCA9
Gain	12 dBi	9 dBi
Beam width	40° H / 38° V: a narrow, focused beam	70° H / 60° V: a wide zone
Read range	Up to 30 m with an Identium UHF 4-port reader	Up to 25 m with an Identium UHF 4-port reader
Size	445 × 445 mm	260 × 260 × 42 mm, 1.0 kg
Build	IP67 ABS body, aluminium reflector, N female, RHCP	IP67 ABS body, aluminium reflector, N female, RHCP
Best for	Long single lanes, vehicle gates and yards	Gates, dock doors and openings where tags arrive from different directions

PRODUCT VIEWS

IDTS ULA-12 panel



Plan your lanes with us.

Ask for a quotation with the number of lanes, the reader you use or plan to use and the distance to the vehicles, and we will quote antennas, readers and windshield tags together.

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Read range depends on the card or tag, its size and the environment. Specifications are indicative and may change without notice; confirm details for your order in the quotation.